



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Marabu Klarlack, 150 ml

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/preparation

Spray varnish

Identified Uses

SU21 Consumer uses: Private households (= general public = consumers)
PC9a Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Address

Marabu GmbH & Co. KG
Asperger Strasse 4
71732 Tamm
Germany
Telephone no. +49-7141/691-0
Fax no. +49-7141/691-147
Information provided by / telephone Department product safety
E-mail address of person responsible for this SDS PRSI@marabu.de

1.4. Emergency telephone number

(+49) (0)621-60-43333

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Aerosol 1	H222
	H229
Eye Irrit. 2	H319
STOT SE 3	H336

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H222 Extremely flammable aerosol.



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

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Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

H229 Pressurised container: May burst if heated.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Do not pierce or burn, even after use.
 P264.1 Wash hands thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
 P501.9 Dispose of contents/container as problematic waste.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Ethyl acetate;n-Butyl acetate;Propan-2-ol;2-Methoxy-1-methylethyl acetate

Supplemental information

EUH066 Repeated exposure may cause skin dryness or cracking.

Further supplemental information

Without adequate ventilation, explosive atmosphere/gas mix may be created.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients ***

3.2. Mixtures

Chemical characterization

Solvent based spray varnish

Hazardous ingredients

Ethyl acetate

CAS No.	141-78-6				
EINECS no.	205-500-4				
Registration no.	01-2119475103-46				
Concentration	>= 20	<	25	%	

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Eye Irrit. 2	H319
STOT SE 3	H336

Propan-2-ol

CAS No.	67-63-0				
EINECS no.	200-661-7				
Registration no.	01-2119457558-25				
Concentration	>= 20	<	25	%	

Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Eye Irrit. 2	H319



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

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STOT SE 3 H336

2-Methoxy-1-methylethyl acetate

CAS No. 108-65-6
 EINECS no. 203-603-9
 Registration no. 01-2119475791-29
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 STOT SE 3 H336

n-Butyl acetate

CAS No. 123-86-4
 EINECS no. 204-658-1
 Registration no. 01-2119485493-29
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)
 Flam. Liq. 3 H226
 STOT SE 3 H336

2-Butoxyethanol

CAS No. 111-76-2
 EINECS no. 203-905-0
 Registration no. 01-2119475108-36
 Concentration >= 1 < 10 %

Classification (Regulation (EC) No. 1272/2008)
 Skin Irrit. 2 H315
 Acute Tox. 4 H332
 Acute Tox. 4 H312
 Acute Tox. 4 H302
 Eye Irrit. 2 H319

Further ingredients ***

Dimethyl ether

CAS No. 115-10-6
 EINECS no. 204-065-8
 Registration no. 01-2119472128-37
 Concentration >= 25 < 50 % [3]

Classification (Regulation (EC) No. 1272/2008)
 Flam. Gas 1 H220
 Press. Gas

*
*
*

[3] Substance with occupational exposure limits

SECTION 4: First aid measures

4.1. Description of first aid measures



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

General information

In all cases of doubt, or when symptoms persist, seek medical attention. If unconscious place in recovery position and seek medical advice.

After inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Summon a doctor immediately.

After skin contact

After contact with skin, wash immediately with plenty of water. Don't use solvents.

After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.

After ingestion

Summon a doctor immediately. Keep at rest. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Until now no symptoms known so far.

4.3. Indication of any immediate medical attention and special treatment needed

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Recommended: alcohol resistant foam, CO₂, powders, water spray/mist, Not be used for safety reasons: water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); dense black smoke

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

Other information

Cool endangered containers with water spray jet. Collect contaminated fire-fighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep away sources of ignition. Ensure adequate ventilation. Do not breathe gas/fumes/vapour/spray. Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent - avoid use of solvents.

6.4. Reference to other sections



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Provide good ventilation of working area (local exhaust ventilation if necessary). Handle and open container with care. Isolate from sources of heat, sparks and open flame. Avoid skin and eye contact. Smoking, eating and drinking shall be prohibited in application area. Comply with the health and safety at work laws.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge.

Classification of fires / temperature class / Ignition group / Dust explosion class

Classification of fires C (Flammable gases)

Temperature class T2

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with national regulation

Further information on storage conditions

Keep away from sources of ignition. Keep container in a cool, well-ventilated place. Observe label precautions.

7.3. Specific end use(s)

Spray varnish

SECTION 8: Exposure controls/personal protection ***

8.1. Control parameters

Exposure limit values

Dimethyl ether

List	EH40			
Type	WEL			
Value	766	mg/m ³	400	ppm(V)
Short term exposure limit	958	mg/m ³	500	ppm(V)
Status:	2011			

Ethyl acetate

List	EH40			
Type	WEL			
Value			200	ppm(V)
Short term exposure limit			400	ppm(V)
Status:	2011			

2-Methoxy-1-methylethyl acetate

List	EH40			
Type	WEL			
Value	274	mg/m ³	50	ppm(V)
Short term exposure limit	548	mg/m ³	100	ppm(V)
Skin resorption / sensibilisation:	Sk; Status: 2011			

Propan-2-ol

List	EH40			
Type	WEL			
Value	999	mg/m ³	400	ppm(V)



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Short term exposure limit 1250 mg/m³ 500 ppm(V)
 Status: 2011

2-Butoxyethanol

List EH40
 Type WEL
 Value 25 ppm(V)
 Short term exposure limit 50 ppm(V)
 Skin resorption / sensibilisation: Sk; Status: 2011

n-Butyl acetate

List EH40
 Type WEL
 Value 724 mg/m³ 150 ppm(V)
 Short term exposure limit 966 mg/m³ 200 ppm(V)
 Status: 2011

Derived No/Minimal Effect Levels (DNEL/DMEL) ***

Ethyl acetate

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Acute
 Route of exposure inhalative
 Concentration 1468 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Acute
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 1468 g/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Route of exposure dermal
 Mode of action Chronic effects
 Concentration 63 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Route of exposure inhalative
 Mode of action Chronic effects
 Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Route of exposure inhalative
 Mode of action Chronic effects
 Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Acute effects
 Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Mode of action Local effects
 Concentration 734 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure dermal
 Mode of action Chronic effects
 Concentration 37 mg/kg

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Chronic effects
 Concentration 367 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure oral
 Mode of action Chronic effects
 Concentration 4,5 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Route of exposure inhalative
 Mode of action Local effects
 Concentration 367 mg/m³

2-Methoxy-1-methylethyl acetate

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 796 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Worker
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 275 mg/m³

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure dermal
 Mode of action Systemic effects
 Concentration 320 mg/kg/d

Type of value Derived No Effect Level (DNEL)
 Reference group Consumer
 Duration of exposure Long term
 Route of exposure inhalative
 Mode of action Systemic effects
 Concentration 33 mg/m³

Type of value Derived No Effect Level (DNEL)

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	33	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	36	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Lifetime	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	550	mg/m ³
n-Butyl acetate		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	960	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	960	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	300	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	480	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	859,7	mg/m ³
Type of value	Derived No Effect Level (DNEL)	

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Reference group	General Population	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	859,7	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	102,34	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	102,34	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	11	mg/kg/d
Dimethyl ether		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1894	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	471	mg/m ³
Propan-2-ol		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	500	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	888	mg/kg/d

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	89	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	319	mg/kg/d
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	26	mg/kg/d
2-Butoxyethanol		
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	89	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	1091	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	General Population	
Duration of exposure	Short term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	147	mg/m ³
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	125	mg/kg
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	98	mg/m ³

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	89,5	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	426	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	26,7	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	147	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	75	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	59	mg/m ³

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	oral	
Mode of action	Systemic effects	
Concentration	6,3	mg/kg

Predicted No Effect Concentration (PNEC)

Ethyl acetate

Type of value	PNEC	
Type	Water	
Concentration	0,26	mg/l

Type of value	PNEC	
Type	Aquatic	

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Concentration	0,026	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,34	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,034	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,22	mg/kg

2-Methoxy-1-methylethyl acetate

Reference substance	2-Methoxy-1-methylethyl acetate	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,635	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	3,29	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,29	mg/kg
Source	Literature value	
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	100	mg/l
Source	Literature value	
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,329	mg/kg
Source	Literature value	
Type of value	PNEC	
Type	Saltwater	
Concentration	0,0635	mg/l

n-Butyl acetate

Type of value	PNEC	
Type	Freshwater	
Concentration	0,18	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,018	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,981	mg/kg
Type of value	PNEC	

Safety data sheet in accordance with regulation (EC) No 1907/2006



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Type	Marine sediment	
Concentration	0,0981	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,0903	mg/kg
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	35,6	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	0,36	mg/l

Dimethyl ether

Type of value	PNEC	
Type	Freshwater	
Concentration	0,155	mg/l
Type of value	PNEC	
Type	Water (intermittent release)	
Concentration	1,549	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,016	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	160	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,681	mg/kg
Type of value	PNEC	
Type	Saltwater	
Concentration	0,069	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	0,045	mg/kg

Propan-2-ol

Type of value	PNEC	
Type	Freshwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	140,9	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	2251	mg/l



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Type of value	PNEC		
Type	Freshwater sediment		
Concentration	552		mg/kg
Type of value	PNEC		
Type	Marine sediment		
Concentration	552		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	28		mg/kg
2-Butoxyethanol			
Type of value	PNEC		
Type	Freshwater		
Concentration	8,8		mg/l
Type of value	PNEC		
Type	Soil		
Concentration	2,8		mg/kg
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	34,6		mg/kg
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	463		mg/l
Type of value	PNEC		
Type	Saltwater		
Concentration	0,88		mg/l
Type of value	PNEC		
Type	Marine sediment		
Concentration	3,46		mg/kg

8.2. Exposure controls

Exposure controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Respiratory protection

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators. Short term: filter apparatus, Filter A/P2; Self-contained breathing apparatus.

Hand protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

For prolonged or repeated handling nitrile rubber gloves with textile undergloves are required.

Material thickness > 0,5 mm

Breakthrough time < 30 min

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

Eye protection

Safety glasses

Body protection

Personnel should wear anti-static clothing made of natural fibre or of high temperature resistant synthetic fibre.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Aerosol		
Colour	colourless		
Odour	solvent-like		
pH value			
Remarks	Not applicable		
Melting point			
Remarks	not determined		
Initial boiling point and boiling range			
Value	appr. 76		°C
Pressure	1.013	hPa	
Source	Literature value		
Flash point			
Remarks	Not applicable		
Upper/lower flammability or explosive limits			
Lower explosion limit	appr. 2		%(V)
Upper explosion limit	appr. 12		%(V)
Source	Literature value		
Density			
Value	0,79		g/cm ³
Temperature	20	°C	
Solubility in water			
Remarks	immiscible		
Partition coefficient: n-octanol/water			
Remarks	Not applicable		
Ignition temperature			
Value	appr. 425		°C
Source	Literature value		
Viscosity			
Remarks	not determined		

9.2. Other information**Other information**

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

10.1. Reactivity

None known

10.2. Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3. Possibility of hazardous reactions

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

10.4. Conditions to avoid

When exposed to high temperatures may produce hazardous decomposition products. Protect from heat and direct sunlight.

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

See chapter 5.2 (Firefighting measures - Special hazards arising from the substance or mixture).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute inhalational toxicity

Remarks Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Remarks Based on available data, the classification criteria are not met.

Serious eye damage/irritation

evaluation irritant

Remarks The classification criteria are met.

Sensitization

Remarks Based on available data, the classification criteria are not met.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.

Reproductive toxicity

Remarks Based on available data, the classification criteria are not met.

Carcinogenicity

Remarks Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity (STOT)

Single exposure

Remarks The classification criteria are met.

evaluation May cause drowsiness or dizziness.

Repeated exposure

Remarks Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Experience in practice

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

contact with the mixture may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation. Ingestion may cause nausea, diarrhoea and vomiting.

Other information

There are no data available on the mixture itself.

The mixture has been assessed following the additivity method of the GHS/CLP Regulation (EC) No 1272/2008.

SECTION 12: Ecological information

12.1. Toxicity

General information

There are no data available on the mixture itself. Do not allow to enter drains or water courses. The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is not classified as dangerous for the environment.

12.2. Persistence and degradability

General information

There are no data available on the mixture itself.

12.3. Bioaccumulative potential

Partition coefficient: n-octanol/water

Remarks Not applicable

12.4. Mobility in soil

General information

There are no data available on the mixture itself.

12.5. Results of PBT and vPvB assessment

General information

There are no data available on the mixture itself.

12.6. Other adverse effects

General information

There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Do not allow to enter drains or water courses.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

Not emptied containers are hazardous waste (waste code number 150110).

SECTION 14: Transport information

Land transport ADR/RID

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class

2



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

Label 2.1

14.4. Packing group

Packing group -
 Limited Quantity 1 I
 Transport category 2

14.5. Environmental hazards

-
 Tunnel restriction code D

Marine transport IMDG/GGVSee

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class 2.1

14.4. Packing group

Packing group -

14.5. Environmental hazards

no

Air transport ICAO/IATA

14.1. UN number

UN 1950

14.2. UN proper shipping name

AEROSOLS

14.3. Transport hazard class(es)

Class 2.1

14.4. Packing group

Packing group -

14.5. Environmental hazards

-

Information for all modes of transport

14.6. Special precautions for user

Transport within the user's premises:
 Always transport in closed containers that are upright and secure.
 Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

no

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Major-accident categories acc. 96/82/EC

Category	8	Extremely flammable	10.000	kg	50.000	kg
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VOC

VOC (CH)	86,84	%	686	g/cm ³
VOC (EU)	86,84	%	686	g/cm ³

Other information

The product does not contain substances of very high concern (SVHC).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.



Trade name: Marabu Klarlack, 150 ml

Version: 4 / GB

Date revised: 09.07.2019

Substance number: 23111006857

Replaces Version: 3 / GB

Print date: 13.07.19

SECTION 16: Other information

Hazard statements listed in Chapter 3

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 GGVSee: Gefahrgutverordnung See
 IMDG: International Maritime Code for Dangerous Goods
 ICAO: International Air Transport Association
 IATA: International Civil Aviation Organization
 CAS: Chemical Abstracts Service
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 EmS: Emergency Schedules
 AICS: Australian Inventory of Chemical Substances
 MITI: Ministry of International Trade and Industry (Japan)
 TSCA: Toxic Substances Control Act (USA)
 VOC: Volatile Organic Compound
 LD: Lethal dose
 LC: Lethal concentration
 SVHC: Substances of very high concern
 DNEL: Derived no effect level
 PNEC: Predicted no effect concentration
 UN: United Nations
 OEL: Occupational exposure limit

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.
 The information in this Safety Data Sheet is based on the present state of knowledge and current legislation.

It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.
 The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions.

As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.